

12.3.8

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

Summary Memorandum

DEC 12 1984

Site ID: WA D009249616
County: King
Priority Assessment: Low
Backlog Red. Cat.:
Date/Revised: 11/1/84

Name and Location:

Lone Star Industries, Inc.
3801 E. Marginal Way S.
Seattle, WA 98134

Contact:
Telephone: (206) 622-2900
Site Status: (X) Active () Inactive () Unknown

Site Description/TSD Activities:

Facility is a cement manufacturer. Spent kiln bricks containing chromium are disposed on site and used as fill with other harmless materials. Some bricks are ground and reused in cement process, coming in contact with water. Wastewater is discharged to holding pond and then reused in process.

Waste Types/Quantities/Characteristics:

Chromium is bonded to kiln bricks and is inert and unreactive at common pH and redox conditions. Wastewater in holding pond has been measured to have up to 0.35 mg/l chromium.

Physical/Social Environment:

Site is in industrial area of Duwamish Waterway. Groundwater is at 5-10 feet below surface in artificial fill material and is tidally influenced. Two parks and no schools within one mile.

Pollutant Mobilization/Pathways/Risk:

Because chromium is bonded to bricks, there is minimal risk of mobilization when bricks are disposed of, at common pH and redox conditions. Wastewater in holding pond may leach to groundwater. Sampling has revealed no contamination of groundwater.

Priority Assessment/Backlog Reduction Category:

Low

Followup Recommendations:

A site visit is recommended on a time-available basis to determine that runoff has all been diverted to process water pond.

USEPA SF



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| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT Part 1 - Site Information and Assessment | | | | | | I. IDENTIFICATION | |
|---|--|--|--|--|---|---|-------------------------------------|
| | | | | | | 01 State WA | 02 Site Number D009249616 |
| II. SITE NAME AND LOCATION | | | | | | | |
| 01 Site Name (legal, common, or descriptive name of site) Lone Star Industries, Inc. | | | | 02 Street, Route No., or Specific Location Identifier 3801 E Marginal Way South | | | |
| 03 City Seattle | | 04 State WA | | 05 Zip Code 98134 | | 06 County King | |
| 07 County Code 033 | | 08 Cong Dist 07 | | | | | |
| 09 Coordinates Latitude 473500.0 Longitude 1222018.0 | | | | Section/Township/Range NE1/4, Sec. 18, T25N, R4E, WM | | | |
| 10 Directions to Site (starting from nearest public road) | | | | | | | |
| III. RESPONSIBLE PARTIES | | | | | | | |
| 01 Owner (if known) Ash Grove Cement West, Inc. | | | | 02 Street (business, mailing, residential) 3801 E Marginal Way South | | | |
| 03 City Seattle | | 04 State WA | | 05 Zip Code 98134 | | 06 Telephone Number (206)6222900 | |
| 07 Operator (if known and different from owner) Ash Grove Cement West, Inc | | | | 08 Street (business, mailing, residential) 3801 E Marginal Way South | | | |
| 09 City Seattle | | 10 State WA | | 11 Zip Code 98134 | | 12 Telephone Number (206)6222900 | |
| 13 Type of Ownership (check one) <input checked="" type="checkbox"/> A. Private <input type="checkbox"/> B. Federal: <input type="checkbox"/> C. State <input type="checkbox"/> D. County <input type="checkbox"/> E. Municipal <input type="checkbox"/> F. Other: <input type="checkbox"/> G. Unknown | | | | | | | |
| Owner/Operator Notification on File (check all that apply) <input checked="" type="checkbox"/> A. RCRA 3001, Date Rec'd: 08 / 18 / 80 <input checked="" type="checkbox"/> B. Uncontrolled Waste Site (CERCLA 103c), Date Rec'd: 06 / 23 / 81 <input type="checkbox"/> C. None | | | | | | | |
| IV. CHARACTERIZATION OF POTENTIAL HAZARD | | | | | | | |
| 01 On Site Inspection <input checked="" type="checkbox"/> Yes, Date: 74 / -- / 84 <input type="checkbox"/> No By (check all that apply): <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA Contractor <input checked="" type="checkbox"/> C. State <input type="checkbox"/> D. Other Contractor <input type="checkbox"/> E. Local Health Official <input type="checkbox"/> F. Other: | | | | Contractors Name(s): | | | |
| 02 Site Status (check one) <input checked="" type="checkbox"/> A. Active <input type="checkbox"/> B. Inactive <input type="checkbox"/> C. Unknown | | | | 03 Years of Operation beginning year ending year 1923 Pres <input type="checkbox"/> Unknown | | | |
| 04 Description of Substances Possibly Present, Known, or Alleged Spent kiln bricks with a chromium content disposed on site and used as fill with other harmless materials. Bricks are inert and unreactive at common pH and redox conditions. Some brick reused in cement manufacturing. Wastewater is recycled through a pond and back into the process. | | | | | | | |
| 05 Description of Potential Hazard to Environment and/or Population Probably little or no hazard. Water in pond used in process with no wastes. However, another seepage pond and storm water drainage from site do not reach process water pond. Unknown if either pond is lined. Drums and fuel pumps reportedly in an unbermed area. Kiln bricks also disposed around facility although these are probably harmless. | | | | | | | |
| V. PRIORITY ASSESSMENT | | | | | | | |
| 01 Priority for Inspection (check one; if high or medium is checked, complete Part 2 and Part 3) <input type="checkbox"/> A. High (inspection required promptly) <input type="checkbox"/> B. Medium (inspection required) <input checked="" type="checkbox"/> C. Low (inspect on time available basis) <input type="checkbox"/> D. None (no further action needed complete current disposition form) | | | | | | | |
| VI. INFORMATION AVAILABLE FROM | | | | | | | |
| 01 Contact Ned Therien | | 02 Of (agency/organization) WDOE | | | 03 Telephone Number (206) 4596352 | | |
| 04 Person Responsible for Assessment Patricia O'Flaherty | | 05 Agency N/A | 06 Organization JRB Associates | | 07 Telephone Number (206) 7477899 | | 08 Date 11 / 01 / 84 |

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| | | |
|---|--|---|
| <input checked="" type="checkbox"/> A. Toxic | <input checked="" type="checkbox"/> E. Soluble | <input type="checkbox"/> I. Highly Volatile |
| <input type="checkbox"/> B. Corrosive | <input type="checkbox"/> F. Infectious | <input type="checkbox"/> J. Explosive |
| <input type="checkbox"/> C. Radioactive | <input type="checkbox"/> G. Flammable | <input type="checkbox"/> K. Reactive |
| <input checked="" type="checkbox"/> D. Persistent | <input type="checkbox"/> H. Ignitable | <input type="checkbox"/> L. Incompatible |
| | | <input type="checkbox"/> M. Not Applicable |

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| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT Part 3 - Description of Hazardous Conditions & Incidents | | I. IDENTIFICATION | |
|--|--|--|----------------|
| | | 01 State | 02 Site Number |
| | | WA | D009249616 |
| II. HAZARDOUS CONDITIONS AND INCIDENTS | | | |
| 01 <input checked="" type="checkbox"/> A. Groundwater Contamination 03 Population Potentially Affected: 0 None reported or suspected. Sampling of groundwater indicates Cr levels below 0.05 mg/l. | 02 <input type="checkbox"/> Observed (Date:) <input type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported or suspected. Sampling of groundwater indicates Cr levels below 0.05 mg/l. | |
| 01 <input checked="" type="checkbox"/> B. Surface Water Contamination 03 Population Potentially Affected: 0 None reported. Wastewaters are recycled through a pond and then reused in process. WDOE inspections in past revealed some waters not reaching pond. Overflow from seepage pond and storm drains may drain to Duwamish River. Nearest surface water is Duwamish Waterway 1/4 mi W-slope < 1%. | 02 <input type="checkbox"/> Observed (Date:) <input checked="" type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported. Wastewaters are recycled through a pond and then reused in process. WDOE inspections in past revealed some waters not reaching pond. Overflow from seepage pond and storm drains may drain to Duwamish River. Nearest surface water is Duwamish Waterway 1/4 mi W-slope < 1%. | |
| 01 <input checked="" type="checkbox"/> C. Contamination of Air 03 Population Potentially Affected: 0 None reported or suspected. Resident population is 8,042 and transient population is 23,670 people within 1 mile of site. | 02 <input type="checkbox"/> Observed (Date:) <input type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported or suspected. Resident population is 8,042 and transient population is 23,670 people within 1 mile of site. | |
| 01 <input checked="" type="checkbox"/> D. Fire/Explosive Conditions 03 Population Potentially Affected: 0 No known certified fire/explosive threat. | 02 <input type="checkbox"/> Observed (Date:) <input type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | No known certified fire/explosive threat. | |
| 01 <input checked="" type="checkbox"/> E. Direct Contact 03 Population Potentially Affected: 0 None reported or suspected. Process wastewaters are permitted by WDOE and regulated by them. Some process waters may not be circulated to pond although this problem was supposed to be corrected. Kiln bricks not used in cement mfg. are disposed on site and pose no direct contact hazard. | 02 <input type="checkbox"/> Observed (Date:) <input checked="" type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported or suspected. Process wastewaters are permitted by WDOE and regulated by them. Some process waters may not be circulated to pond although this problem was supposed to be corrected. Kiln bricks not used in cement mfg. are disposed on site and pose no direct contact hazard. | |
| 01 <input checked="" type="checkbox"/> F. Contamination of Soil 03 Area Potentially Affected (acres): 0 None reported or suspected. Kiln bricks disposed on site are inert and unreactive at common pH and redox conditions. Unknown if storage pond with remaining bricks is lined. Native soils are sand, gravel, silts, and clays. | 02 <input type="checkbox"/> Observed (Date:) <input type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported or suspected. Kiln bricks disposed on site are inert and unreactive at common pH and redox conditions. Unknown if storage pond with remaining bricks is lined. Native soils are sand, gravel, silts, and clays. | |
| 01 <input checked="" type="checkbox"/> G. Drinking Water Contamination 03 Population Potentially Affected: 0 None reported or suspected. Neither local ground nor surface water supplies serve any drinking water needs within 3 miles of site. Ground-water analyses have revealed no Cr contamination. | 02 <input type="checkbox"/> Observed (Date:) <input type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported or suspected. Neither local ground nor surface water supplies serve any drinking water needs within 3 miles of site. Ground-water analyses have revealed no Cr contamination. | |
| 01 <input checked="" type="checkbox"/> H. Worker Exposure/Injury 03 Workers Potentially Affected: Unknown None reported or suspected. Spent chrome kiln bricks should pose little or no hazard to employees. Process waters are recycled. Unknown what handling methods used, but little hazard is expected. | 02 <input type="checkbox"/> Observed (Date:) <input checked="" type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported or suspected. Spent chrome kiln bricks should pose little or no hazard to employees. Process waters are recycled. Unknown what handling methods used, but little hazard is expected. | |
| 01 <input checked="" type="checkbox"/> I. Population Exposure/Injury 03 Population Potentially Affected: 0 None reported or suspected. Perhaps most significant potential is fate of wastewaters that did not recirculate to pond used in processing. According to WDOE files all side streams were to be directed toward pond in 1983. If this has occurred, there is no risk to population. | 02 <input type="checkbox"/> Observed (Date:) <input checked="" type="checkbox"/> Potential <input type="checkbox"/> Alleged 04 Narrative Description | None reported or suspected. Perhaps most significant potential is fate of wastewaters that did not recirculate to pond used in processing. According to WDOE files all side streams were to be directed toward pond in 1983. If this has occurred, there is no risk to population. | |

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT Part 3 - Description of Hazardous Conditions & Incidents | | I. IDENTIFICATION | |
|---|--------------------------|--------------------------|----------------|
| | | 01 State | 02 Site Number |
| | | WA | D009249616 |
| II. HAZARDOUS CONDITIONS AND INCIDENTS (continued) | | | |
| 01 (X) J. Damage to Flora | 02 () Observed (Date:) | () Potential | () Alleged |
| 04 Narrative Description None reported or suspected. | | | |
| 01 (X) K. Damage to Fauna | 02 () Observed (Date:) | () Potential | () Alleged |
| 04 Narrative Description (include name(s) of species) None reported or suspected. | | | |
| 01 (X) L. Contamination of Food Chain | 02 () Observed (Date:) | () Potential | () Alleged |
| 04 Narrative Description None reported or suspected. | | | |
| 01 (X) M. Unstable Containment of Wastes (spills/runoff/standing liquids/leaking drums) | 02 () Observed (Date:) | (X) Potential | () Alleged |
| 03 Population Potentially Affected: WDOE inspections state process waters collected in pond and reused. Overflow from seepage pond and runoff from plant did not go to pond as of 1983. Gas, diesel pump, and drums are not contained in a bermed area. | | | |
| 01 (X) N. Damage to Offsite Property | 02 () Observed (Date:) | (X) Potential | () Alleged |
| 04 Narrative Description None reported or suspected. Potential damage from seepage pond and runoff is probably minimal. Unknown if either pond is lined. | | | |
| 01 (X) O. Contamination of Sewers, Storm Drains, WWTPs | 02 () Observed (Date:) | (X) Potential | () Alleged |
| 04 Narrative Description None reported. Potential runoff from south side of facility and seepage pond overflows could impact local surface waters. Unknown if process water pond is lined. | | | |
| 01 (X) P. Illegal/Unauthorized Dumping | 02 () Observed (Date:) | () Potential | () Alleged |
| 04 Narrative Description None reported or suspected. | | | |
| 05 Description of Any Other Known, Potential, or Alleged Hazards None known. | | | |
| III. TOTAL POPULATION POTENTIALLY AFFECTED: | | | |
| IV. COMMENTS | | | |
| Bricks disposed on site are inert and unreactive at common pH and redox conditions and this should pose no environmental health risk. Bricks reused in cement manufacturing are potential source of Cr contamination to groundwater, surface waters, or soils although the wastewaters are mostly used in process & GW analyses revealed no Cr contamination. | | | |
| V. SOURCES OF INFORMATION (cite specific references: state files, reports, etc.) | | | |
| WDOE Files; Water Supply Bulletin #28; EPA/ERRIS Files; USGS Seattle South Quad; PSCOG, 1984; Geohydrological Monograph #5; 1980 Fed. Census; DSHS Computer Files | | | |

